

JC17 Rec'd PCT/PTO 10 JUN 2005

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A device for emptying hot particle material from a chamber (4) into a transport container (2), ~~the container (2) being provided with~~ comprising a first pipe (3, 31) that can be inserted into the particle material in the chamber and communicates into the container: [[,]] and a second pipe (6) that is connected from the container to a vacuum source (5) via a powder separator (7), wherein the first and second pipes communicate with ~~the~~ an upper part of the container (2) and the pipes are spaced from each other to permit separation of particle material in the container, ~~wherein~~ the container (2) has ~~an outlet (11) in its~~ a lower, downwardly narrowing part (17) with an outlet therein, said the outlet (11) being provided with has a valve (10), ~~wherein~~ a vertical chute (20) surrounds the outlet[[,]] and extends downwardly ~~therefrom,~~ and from the outlet, the chute has an evacuation pipe (70) for the withdrawal of a mixture of air and powder that is generated inside the ~~shaft (20) chute~~ while the particle material is being emptied through the outlet and the outlet valve, ~~and wherein~~ the container (2) includes a heat-exchanger (40) to cool the particle material deposited in the container (2), ~~characterised in that~~ at least one compressed air tube (60) extends into the interior of the container (2) and is ~~provided with~~ the tube has a plurality of openings (64) from which air flows, ~~said the~~ openings ~~being~~ are open to the powder material therein, ~~and in that~~ the compressed air tube (60) is ~~provided with~~ has an inlet end (67) that is supplied from a compressed air source and has a cut-off valve (61) controlled by software (63) for time-controlled forcing of compressed air into the powder material through the openings (64).

2. (Currently Amended) A device as claimed in claim 1, ~~characterised in that~~ the further comprising a suction tube having an outlet end 28 of that a suction tube (22, 22') communicates with ~~the~~ an interior of the an upper part (21) of the container, (2) ~~and that it's the~~ suction tube has an inlet end that is supplied with ambient air, the suction tube (22, 22') having a section which extends through the lower part of the container (2) and which contains an ejector (29) through which powder material is carried by the air-flow through the tube (22, 21').

3. (Currently Amended) A device as claimed in claim 1, further comprising ~~or claim 2;~~
~~characterised in that~~ a suction tube (22', 70) that communicates with the vertical chute
(20) and opens into the upper part of the container (2), the suction tube preferably having a
section which extends through the lower part (17) of the container and is provided with an ejector
(29).

4. (Currently Amended) A device as claimed in ~~any one of claims 1-3;~~
~~characterised in that~~ claim 1, further comprising an air induction tube (80) is connected
to the lower part of the container (2) in the vicinity of ~~[[its]]~~ the outlet (11) and the induction tube
has a valve (81).

5. (Currently Amended) A device as claimed in ~~any one of claims 1-4;~~
~~characterised in that~~ claim 1, wherein the vertical chute (20) ~~is in the form of~~ comprises
a vertical chute bellows ~~that serves~~ adapted to surround a jet of powder material flowing out
through the outlet to a receiving chamber (4').

6. (Currently Amended) A device as claimed in ~~any one of the preceding claims;~~
~~characterised in that~~ claim 1, wherein the pipe (3) for drawing powder material into the
container (2) is provided with a shut-off valve (32).

7. (Currently Amended) A device as claimed in claim 6, ~~characterised in that,~~
wherein when particle material is being emptied from the container (2), the valve (32) in the pipe
(3) for drawing powder material into the container (2) is arranged to be closed, while the negative
pressure source remains activated, and ~~in that~~ the valve (81) in the tube connected to the outlet
part of the container (2) is arranged to be opened to permit the particle material deposited in the
container (2) to flow out through the outlet (11) when the outlet valve (10) is opened.

8. (Currently Amended) A device as claimed in ~~any one claims 1-7;~~ ~~characterised~~
~~in that~~ claim 1, wherein the heat-exchanger (40) comprises a plurality of hollow heat-exchanger
elements (41) ~~through which operable for cooling air flows, and in that to flow,~~ at least one tube
(90) is arranged to extend between a plurality of the heat-exchanger ~~bodies~~ (41) elements to
establish air communication between them, wherein the tube (91) extending between the heat-

exchanger bodies (41) ~~have~~ has openings through which air from the interior of the heat-exchanger bodies (41) can flow out into the interior of the container (2).

9. (Currently Amended) A device as claimed claim 8, ~~characterised in that~~ wherein the tube (90) communicating between the heat-exchanger bodies (41) has an end (91) that communicates with the atmosphere outside the container (2).